

3.7 What to do?

1) $6x-3=$

GCF $= 3(2x-1)$

6) $3y^2-27=$
 GCF
 Diff of Squares $= 3(y^2-9)$
 $= 3(y-3)(y+3)$

Trinomial

2) $x^2+2x-35$

1×35
 5×7
 $-5 + 7 = +2$
 $= (x-5)(x+7)$

7) x^2-2x-8

1×8
 2×4
 $2 + -4 = -2$
 $= (x+2)(x-4)$

GCF

3) $200-2x^2=$

$= 2(100-x^2)$

Diff of Squares

$= 2(10+x)(10-x)$

Diff of Squares

8) $16x^2-49=$

$= (4x+7)(4x-7)$

trinomial

4) $x^2-11x+24$

1×24
 2×12
 3×8
 4×6
 $-3 + 8 = -11$
 $= (x-3)(x-8)$

GCF

9) $3x^2+7x=$

$= x(3x+7)$

GCF

5) $-3x^2+12x$

$= -3x(x-4)$

GCF

10) $-2x^2+10x$

$= -2x(x-5)$

On Your Own..

11) $p^2 - 4p - 21$

16) $4x^2 - 36$

12) $m^2 + 7m + 6$

17) $9g^2 - 25$

13) $r^2 - 13r + 36$

18) $18x^2 - 50$

14) $n^2 - 4n - 32$

19) $2n^2 + 20n + 18$

15) $x^2 - 16$

20) $-4x^2 + 16x$